



*M.L. #5*  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Collins, D.A. et al.

Serial No.: 10/027,593

Group Art Unit: 1614

Filed: October 25, 2001

Examiner: Not Yet Assigned

For: Transcobalamin Binding Conjugates Useful for Treating Abnormal Cellular Proliferation

Assistant Commissioner for Patents  
Washington, DC 20231

March 26, 2002



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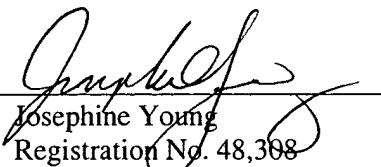
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Application Number	10/027,593
Filing Date	October 25, 2001
First Named Inventor	Collins, D.A. et al.
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Examiner Name	N/A

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## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
AA	3,936,440			Nath	02-03-1976	
AB	3,981,863			Niswender et al.	09-21-1976	
AC	4,209,614			Bernstein et al.	06-24-1980	
AD	4,279,859			Gutcho et al.	07-21-1981	
AE	4,283,342			Yollees	08-11-1981	
AF	4,301,140			Frank et al.	11-17-1981	
AG	4,465,775			Houts	08-14-1984	
AH	5,308,606			Wilson et al.	05-03-1994	
AI	5,405,839			Toraya et al.	04-11-1995	
AJ	5,428,023			Russell-Jones et al.	06-27-1995	
AK	5,449,720			Russell-Jones et al.	09-12-1995	
AL	5,514,695			Bergeron	05-07-1996	
AM	5,548,064			Russell-Jones et al.	08-20-1996	
AN	5,574,018			Habberfield et al.	11-12-1996	
AO	5,589,463			Russell-Jones et al.	12-31-1996	
AP	5,608,060			Axworthy et al.	03-04-1997	
AQ	5,739,313			Collins et al.	04-14-1998	
AR	5,807,832			Russell-Jones et al.	09-15-1998	
AS	5,840,880			Morgan, Jr. et al.	11-24-1998	
AT	5,869,465			Morgan, Jr. et al.	02-09-1999	
AU	5,869,466			Russell-Jones et al.	02-09-1999	
AV	5,936,082			Bauer	08-10-1999	
AW	6,004,533			Collins et al.	12-21-1999	
AX	6,083,966			Bergeron, Jr.	07-04-2000	

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Attorney Docket Number 07959.105022 (COP1008)

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		Number	Kind Code <sup>2</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BA		6,096,290		Collins et al.	08-01-2000

FOREIGN PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document DD-MM-YYYY
		Office <sup>3</sup>	Number	Kind Code <sup>2</sup> (if known)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BB	PCT	97/18231		Collins et al.	22-05-1997
BC	PCT	98/08859		Grissom et al	05-03-1998
BD	PCT	99/65930		Russell-Jones et. al.	23-12-1999
BE	DE	1,811,518		Zumstein et al.	10-07-1969

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
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	BF	ALLEN, R.H., et al. "Isolation of Gastric Vitamin B <sub>12</sub> -binding Proteins Using Affinity Chromatography." <i>J. Biol Chem.</i> 248(10):3660-3669, May 25, 1973.			
	BG	ALLEN, R.H., et al. "Isolation of Vitamin B <sub>12</sub> -binding Proteins Using Affinity Chromatography." <i>J. Biol Chem.</i> 247(23):7695-7701, December 10, 1972.			
	BH	ANTON, D.L., et al. "Carbon-13 Nuclear Magnetic Resonance Studies of the Monocarboxylic Acids of Cyanocobalamin. Assignments of the B-, D-, and E-Monocarboxylic Acids." <i>J. Am. Chem. Soc.</i> 102(7):2215-2219, March 26, 1980.			
	BI	BERNHAUER, K., et al. "Zur Chemie und Biochemie der Corrinoide." <i>Biochem. Z.</i> , 344:289-309, 1966.			

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	CA	BOUCHAUDON, J., et al. "Daunomycin derivatives." <i>Chemical Abstracts</i> . 71(91866):440, 1969.	
	CB	COLLINS, D.A., et al. "Transcobalamin II Receptor Imaging via Radiolabeled Diethylene-Triaminepentaacetate Cobalamin Analogs." <i>J. Nucl. Med.</i> , 38, 717-723 (1997).	
	CC	COLLINS, D.A., et al. "Tumor Imaging Via Indium 111-Labeled DTPA-Adenosylcobalamin." <i>Mayo Clinic Proc.</i> 74:687-691, 1999.	
	CD	ELLENBOGEN, L., "Absorption and Transport of Cobalamin: Intrinsic Factor and the Transcobalamins." <i>Cobalamin: Biochem. and Pathophysiol.</i> . Babior, ed., Wiley, N.Y. (1975) Chapter 5.	
	CE	HOGENKAMP, H.P.C. et al. "Carbon-13 Nuclear Magnetic Resonance Studies of Adenosylcobalamin and Alkylcorrinoids, Selectively Enriched with Carbon-13." <i>Biochemistry</i> . 14(16):3707-3714, 1975.	
	CF	HOGENKAMP, H.P.C. "Chemical synthesis and properties of analogs of adenosylcobalamin." <i>Biochemistry</i> . 13(13):2736-2740, 1974.	
	CG	HOGENKAMP, H.P.C. et al. "Synthesis and Characterization of <i>nido</i> -Carborane-Cobalamin Conjugates." <i>Nucl. Med. &amp; Biol.</i> 27:89-92, 2000.	
	CH	JACOBSEN, D.W., et al. "Rapid Purification of Cobalamin-Binding Proteins Using Immobilized Aminopropylcobalamin." <i>Anal. Biochem.</i> 113:164-171, 1981.	
	CI	KIKUGAWA, K. et al. "Direct Halogenation of Sugar Moiety of Nucleosides." <i>Tetrahedron Lett.</i> No. 2:87-90, 1971.	
	CJ	NEXO, E. "Cobalamin Binding Proteins." <i>Vitamin B<sub>12</sub> and B<sub>12</sub>-proteins</i> . eds. Krantler, B., et al.; Wiley & Sons, Ltd. 461-475.	
	CK	TORAYA, T., et al. "Preparation, Properties and Biological Activities of Succinyl Derivatives of Vitamin B <sub>12</sub> ." <i>Bioinorg. Chem.</i> 4:245-255, 1975.	

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